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万寿竹属(百合科)一新种——金佛山万寿竹

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Disporum jinfoshanense X. Z. Li, D. M. Zhang & D. Y. Hong, a new species of the Liliaceae from Chongqing, China

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Abstract *Disporum jinfoshanense* X. Z. Li, D. M. Zhang & D. Y. Hong, a new species of the Liliaceae from Nanchuan, Chongqing, China, is described and illustrated. This species is morphologically similar to *D. smilacinum* A. Gray in having leaves ovate to elliptic, inflorescences terminal, flowers spreading, tepals white, slightly saccate at the base, but differs from the latter in having stems dwarf, 15–20 cm tall, leaves 3–4, all on the upper part of the stems, petioles 2–4 mm long, and tepals densely pubescent on the inner surface.
Key words *Disporum*, *Disporum jinfoshanense*, Liliaceae, new species, Chongqing, China.

摘要 描述了重庆市南川金佛山百合科Liliaceae一新种——金佛山万寿竹*Disporum jinfoshanense* X. Z. Li, D. M. Zhang & D. Y. Hong。该种与山东万寿竹*D. smilacinum* A. Gray相似, 具卵形或椭圆形叶, 顶生花序, 花被片白色, 开展, 基部稍具浅囊; 不同之处在于其茎高15–20 cm, 叶3–4片, 集中于茎上部, 叶柄明显, 长2–4 mm, 花被片内表面密布短柔毛。山东万寿竹只分布于山东半岛、朝鲜半岛以及日本。
关键词 万寿竹属; 金佛山万寿竹; 百合科; 新种; 重庆; 中国

2005年5月, 作者在重庆南川市金佛山自然保护区进行野外考察时, 在一级站附近开阔谷地(海拔1198 m)碎石土质的北向草坡上, 发现一片正在开花的万寿竹属*Disporum* Salisb.植物。当时觉得该植物和山东万寿竹*D. smilacinum* A. Gray相似, 遂拍照并采集数株, 在中国科学院植物研究所植物标本馆(PE)进行详细比较研究后, 确定为万寿竹属一新种。它在属内的系统位置以及与近缘种的差异可用检索表表示:

新种与本属其他种的检索表

1. 匍匐茎长10–30 cm, 花被片开展。
   2. 茎高30–80 cm, 常分枝, 正常叶14–25, 有3–7片位于分枝下; 花被片是雄蕊长的2–3倍; 花丝与花药等长……………………………………………1. **宝珠草 Disporum viridescens** (Maxim.) Nakai
   2. 茎高15–35 cm, 极少分枝, 正常叶3–7, (如有分枝)分枝下无叶或仅有一枚; 花被片是雄蕊长的1.5倍; 花丝是花药长的两倍。
      3. 茎高15–20 cm; 叶3–4, 全部位于茎上部1/3; 叶柄长2–4 mm; 花被片内表面密被柔毛(限于重庆金佛山) ………………2. **金佛山万寿竹 D. jinfoshanense** X. Z. Li, D. M. Zhang & D. Y. Hong

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3. 茎高15–35 cm; 叶4–7, 全部位于茎上部2/3; 叶柄长≤2 mm; 花被片内面无毛(山东半岛、朝鲜半岛和日本) ··················3. **山东万寿竹D. smilacinum** A. Gray

1. 匍匐茎无或长仅1–5 cm; 花管状或钟状, 花被片不开展··················**Disporum**的其他种

Key to the new species and the other species of *Disporum*

1. Stolons 10–30 cm long, tepals spreading.
   2. Stems 30–80 cm tall, often branched, 14–25 normal leaves with 3–7 below the branches, tepals 2–3 times longer than stamens; filaments equal to anthers in length·········1. **D. viridescens** (Maxim.) Nakai
   2. Stems 15–35 cm tall, rarely branched, 3–7 normal leaves with none or 1 below the branches if branched, tepals 1.5 times longer than stamens; filaments 2 times longer than anthers.
      3. Stems 15–20 cm tall; leaves 3–4 all on the upper 1/3 part of the stems; petioles 2–4 mm long; tepals densely pubescent on the inner surface (confined to Jinfo Shan, China) ··················2. **D. jinfoshanense** X. Z. Li, D. M. Zhang & D. Y. Hong
      3. Stems 15–35 cm tall; leaves 4–7 all on the upper 2/3 part of the stems; petioles less than 2 mm long; tepals glabrous on the inner surface (distributed in Shandong, Korean Peninsula, Japan) ··················3. **D. smilacinum** A. Gray
1. Stolons absent or only 1–5 cm long; flowers tubular, campanulate, tepals not spreading ··················the other species of **Disporum**

金佛山万寿竹 新种 图1–5

Disporum jinfoshanense X. Z. Li, D. M. Zhang & D. Y. Hong, sp. nov. Figs. 1–5

A *D. smilacino* A. Gray caulibus 15–20 cm altis, foliis 3–4 omnino ad superioribus 1/3 caulibus, petiolis 2–4 mm longis, tepalis dense pubescentibus ad interiore pagina recedit.

China. Chongqing (重庆): Nanchuan (南川), Jinfoshan Nature Reserve (金佛山自然保护区), Yijizhan (一级站), alt. 1198 m, 29°02′871″ N, 110°12′619″ E , 2005-05-03, *X. Z. Li* (李心正) *Chongqing 06* (holotype, PE; isotype, PE).

Herbs perennial, with short rhizomes; stolons often present, 10–30 cm long. Stems ascending, simple, rarely branched, 15–20 cm tall. Leaves 3–4, concentrated at distal 1/3 part of stems, alternate; petioles 2–4 mm long; leaf blades ovate to elliptic, 7–8×2.3–4 cm, chartaceous, base subrounded and slightly conduplicate, margin scabrous, apex acuminate, cuspidate or acute; cross veins sometimes distinct. Inflorescences terminal, non-pedunculate, 1–2 (rarely 3 or 4)-flowered. Pedicels 2.6–3 cm long; tepals spreading, white, broadly lanceolate, 13–17×3–4 mm, base slightly saccate, apex acute, densely pubescent on the inner surface, veins not distinct. Stamens inserted at the base of tepals, included, 8–11 mm long; filaments dilated proximally, 5–7 mm long; anthers extrorse, 3–4 mm long; pistil as long as stamens; styles and stigma together 7 mm long, 2 times as long as ovary, stigmas 3-fid. Berry globose, purple black, 8×6 mm. Fl. Apr.–May; fr. Sept.–Oct.

Chromosomes: $2n$=16 (the voucher: *X. Z. Li* (李心正) *Chongqing 06* (PE)).

多年生草本。根状茎短, 常具10–30 cm长的匍匐茎。茎上升, 单一, 极少分枝, 高15–20 cm。叶3–4片, 集中于植株上部1/3, 叶柄明显, 长2–4 mm, 叶片卵形或椭圆形, 7–8×2.3–4 cm, 纸质, 基部近圆形, 稍对折, 边缘有乳突, 先端渐尖、骤尖或急尖, 横脉有时明显。花序顶生, 花序梗缺失, 具1–2朵花, 稀3或4朵花。花蕾椭球形。成熟花的花梗长2.6–3 cm。花被片开展、白色、广披针形, 13–17×3–4 mm, 基部稍具浅囊, 脉纹不明显, 先端尖, 内表面密布短柔毛。雄蕊生于花被片基部, 内藏, 长8–11 mm。花丝基部扁平, 长5–7 mm。花药外向, 长3–4 mm。雌蕊与雄蕊等长, 花柱连同3裂的柱头长7 mm,

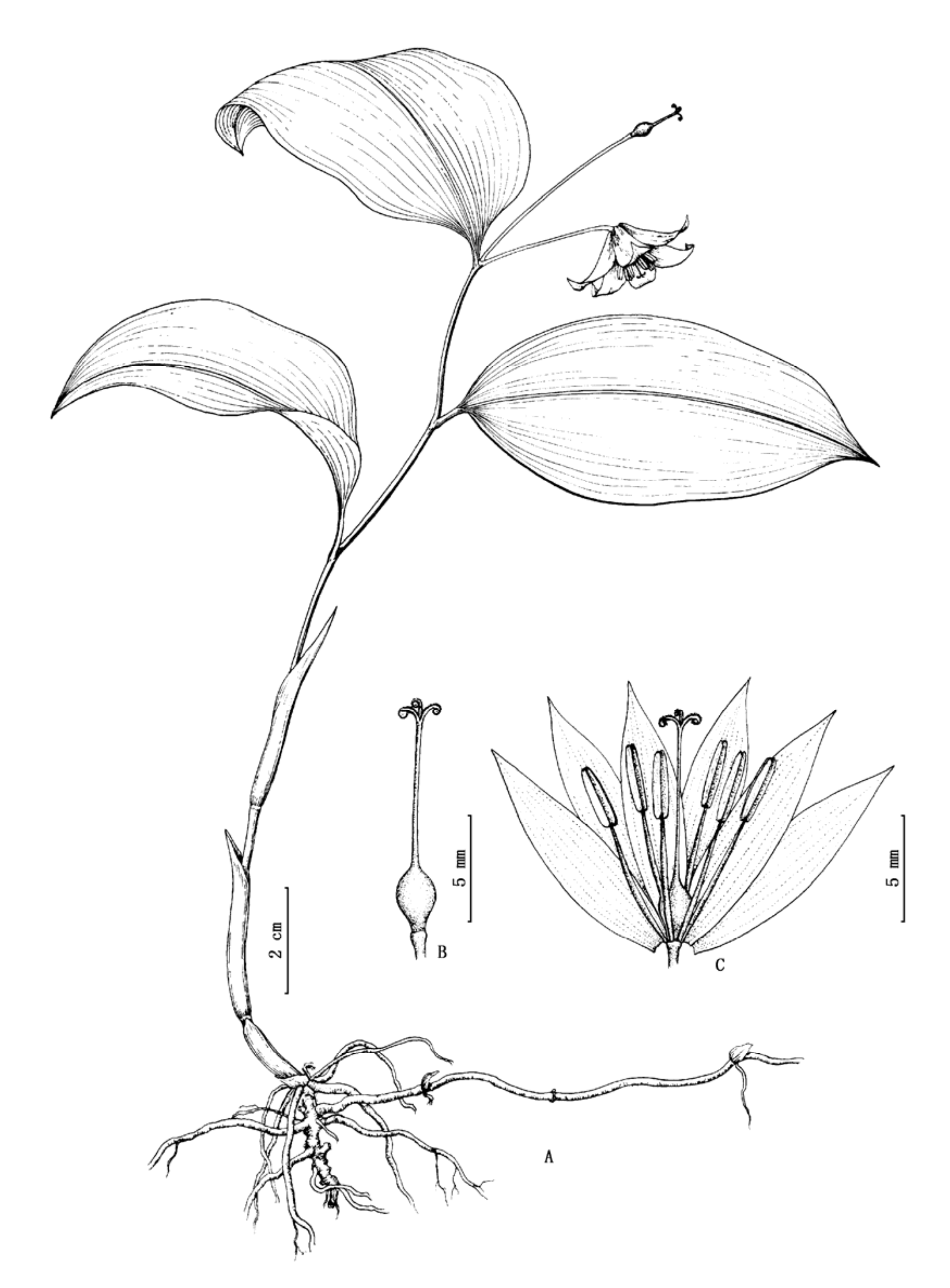


图1 金佛山万寿竹 A, 植株; B, 雌蕊; C, 花。(李爱丽根据李心正重庆06号标本绘)
Fig. 1. *Disporum jinfoshanense* X. Z. Li, D. M. Zhang & D. Y. Hong. A, a plant; B, a pistil; C, a flower, opened. Drawn by A. L. Li from *X. Z. Li Chongqing 06*.



图2–5 金佛山万寿竹 **2.** 生境。**3.** 花，背面观。**4.** 花，侧面观。**5.** 花，正面观。
Figs. 2–5. *Disporum jinfoshanense* X. Z. Li, D. M. Zhang & D. Y. Hong. **2.** Habitat. **3.** A flower, back view. **4.** Flowers, lateral view. **5.** A flower, front view.

2倍于子房长度。浆果球形，紫黑色，8×6 mm。花期4–5月。果期9–10月。染色体数目2*n*=16。

本种与山东万寿竹*D. smilacinum* A. Gray相似，具卵形或椭圆形叶，顶生花序，花被片白色，开展，基部稍具浅囊；不同之处在于其茎高15–20 cm，叶3–4片，叶柄明显，长2–4 mm，花被片内表面密布短柔毛。山东万寿竹只分布于山东半岛、朝鲜半岛以及日本。